

VEM makes your drive smart. VEMoDiAC-Sens measures and transmits operation conditions of low voltage motors continuously. Visualization, analysis and alarm handling will be provided by the IoT-platform VEMoDiAC-Cloud.

Applications

- Three-phase motors up to 30 kW
- DOL and star-delta starting motors
- Direct energy monitoring
- Long-term monitoring, no battery change necessary



Electrical parameters

- Phasevoltage, phasecurrent
- Active, reactive and apparent power
- Power factor
- Supply frequency
- Active energy counter
- Operation hours counter
- Start cycle counter

Mechanical parameters

- Total acceleration at the terminal box
- Vibration speed at the terminal box
- Winding temperature by PT1000
- Internal case temperature



Electric connection, ambient conditions

Power supply	200 V up to 450 V AC 3~, 50 Hz or 60 Hz
Power consumption	2 W
Ambient temperature	-20 °C up to +40 °C
Degree of protection	IP65
protection class	Class II

Electrical measurement

Voltage measurement range	200 V up to 450 V, 50 Hz up to 60 Hz Class of accuracy 1 (*)
Current measurement range	0 up to 50 A Class of accuracy 5 (*)

* only at mains operation

Mechanical measurement

Vibration measurement range	Acceleration: < 36 m/s ² Vibration speed: < 50 mm/s
Temperature measurement range	via PT1000: -40 °C up to +200 °C Internal sensor: -20 °C up to +100 °C

Wireless communication

WLAN module	IEEE 802.11 b/g/n, 2.4 GHz, range about 100 m
Protocol for measurement data	Modbus TCP MQTT
Transmission interval	5 s up to 60 s
NFC	Configuration via NFC and free Android App "VEMoDiAC"